

AMENDMENTS TO THE CLAIMS

Claims 1-7 (Canceled)

Claim 8 (Currently Amended): A production method of a TiAl based alloy comprising:

a step for holding a TiAl based alloy material having a fine lamellar microstructure and containing Al at least in an amount of from 43 to 48 atomic %, and Cr in an amount of more than 5 atomic % and less than or equal to 10 atomic %, in an equilibrium temperature range of an  $\alpha$  phase (1503K to 1673K);

a step for taking the TiAl based alloy material out of a furnace; and

a step for subjecting the TiAl based alloy material which had been held at that temperature to high-speed plastic working, while cooling the material to a predetermined working terminal temperature at a cooling speed of 50 to 700°C/min.

Claim 9 (Canceled)

Claim 10 (Currently Amended): A production method of a TiAl based alloy according to claim 8, wherein said working terminal temperature is ~~1200°C~~ 1473K.

Claim 11 (Original): A production method of a TiAl based alloy according to claim 8, wherein said TiAl based alloy material is held at said holding temperature with the material being covered with a thermal insulation material, and then said TiAl based alloy is subjected to high-speed plastic working, together with said thermal insulation material.

Claim 12 (Original): A production method of a TiAl based alloy according to claim 8, wherein a forging method is used as said high-speed plastic working.

Claim 13 (Canceled)

Claim 14 (Currently Amended): A production method of a TiAl based alloy comprising:

a step for holding a TiAl based alloy material having a fine lamellar microstructure and containing Al at least in an amount of from 38 to 44 atomic %, and Cr in an amount of more than 5 atomic % and less than or equal to 10 atomic %, in an equilibrium temperature range of a ( $\alpha + \beta$ ) phase (1423K to 1573K);

a step for taking the TiAl based alloy material out of a furnace; and

a step for subjecting the TiAl based alloy material which had been held at that temperature to high-speed plastic working, while cooling the material to a predetermined working terminal temperature at a cooling speed of 50 to 700°C/min.

Claim 15 (Canceled)

Claim 16 (Currently Amended): A production method of a TiAl based alloy according to claim 14, wherein said working terminal temperature is ~~4000°C~~ 1273K.

Claim 17 (Original): A production method of a TiAl based alloy according to claim 14, wherein a forging method is used as said high-speed plastic working.

Claims 18-19 (Canceled)